IN THE CLAIMS:

Please amend the claims as follows:

1. (currently amended) An ~~inspect~~ insect lure and trap system, comprising:

a valve that receives a gaseous fuel, and provides a regulated flow of gaseous fuel;

means responsive to said regulated flow of gaseous fuel, for generating carbon dioxide to attract insects to a predetermined region;

means for generating airflow that forces insects within the predetermined region into a container;

a temperature sensor that senses ~~the~~ a temperature of the carbon dioxide and provides a carbon dioxide temperature signal indicative thereof; and

means responsive to said carbon dioxide temperature signal, for generating a valve command signal that regulates said valve, wherein said means comprises means for comparing said carbon dioxide temperature signal value against a temperature reference signal value, and if said carbon dioxide temperature signal value is below said temperature reference signal, for providing a valve command signal to open and close the valve at a first frequency, and if said carbon dioxide temperature signal value is above said temperature reference signal, for providing a valve command signal to open and close the valve at a second frequency.

2. (cancelled) The inspect lure and trap system of claim 1, wherein said means for generating a valve command signal comprises means for comparing said carbon dioxide temperature signal value against a temperature reference signal value, and if said carbon dioxide temperature signal value is below said temperature reference signal, for providing said valve command signal to open said valve, and if and carbon dioxide temperature signal value is above

said temperature reference signal, for providing said valve command signal to close said valve.

3. (new) The insect lure and trap system of claim 1 further comprising:

a light sensor that senses ambient light and provides an ambient light signal indicative thereof; and

means for regulating the flow of gaseous fuel based on the ambient light signal.

4. (new) The insect lure and trap system of claim 3, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient light signal value to an ambient light reference value and for generating a valve command signal to open the valve when the ambient light signal value is less than the ambient light reference value.

5. (new) The insect lure and trap system of claim 3, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient light signal value to an ambient light reference value and for generating a valve command signal to open the valve when the ambient light signal value is greater than the ambient light reference value.

6. (new) The insect lure and trap system of claim 1 further comprising:

a second temperature sensor that senses an ambient temperature and provides an ambient temperature signal indicative thereof; and

means for regulating the flow of gaseous fuel in response to the ambient temperature signal.

7. (new) The insect lure and trap system of claim 6, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient temperature signal value to an ambient temperature reference value and for generating a valve command signal to open the valve when the ambient temperature signal value is greater than the ambient temperature

reference value.

8. (new) An insect lure and trap system, comprising:

a valve that receives a gaseous fuel, and provides a regulated flow of gaseous fuel;

means responsive to said regulated flow of gaseous fuel, for generating carbon dioxide to attract insects to a predetermined region;

means for generating airflow that forces insects within the predetermined region into a container;

a temperature sensor that senses a temperature of the carbon dioxide and provides a carbon dioxide temperature signal indicative thereof; and

means responsive to said carbon dioxide temperature signal for generating a valve command signal that regulates said valve, wherein said means for generating a valve command signal comprises means for comparing said carbon dioxide temperature signal value against a temperature reference signal value, and if said carbon dioxide temperature signal value is below said temperature reference signal, for providing said valve command signal to open said valve, and if and carbon dioxide temperature signal value is above said temperature reference signal, for providing said valve command signal to close said valve.

9. (new) The insect lure and trap system of claim 8 further comprising:

a light sensor that senses ambient light and provides an ambient light signal indicative thereof; and

means for regulating the flow of gaseous fuel in response to the ambient light signal.

10. (new) The insect lure and trap system of claim 9, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient light signal value to an

ambient light reference value, for generating a valve command signal to open the valve when the ambient light signal value is greater than the ambient light reference value.

11. (new) The insect lure and trap system of claim 9, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient light signal value to an ambient light reference value, for generating a valve command signal to open the valve when the ambient light signal value is less than the ambient light reference value.

12. (new) The insect lure and trap system of claim 8 further comprising:

a second temperature sensor that senses an ambient temperature and provides an ambient temperature signal indicative thereof; and

means for regulating the flow of gaseous fuel in response to the ambient temperature signal.

13. (new) The insect lure and trap system of claim 12, wherein means for regulating the flow of gaseous fuel comprises means for comparing the ambient temperature signal value to an ambient temperature reference value, for generating a valve command signal to open the valve when the ambient temperature signal value is greater than the ambient temperature reference value, and for generating a valve command signal to close the valve when the ambient temperature signal value is less than the ambient temperature reference value.